PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: DONNA H. CATALFIO	PCT		
GALLAGYER & KENNEDY, P.A.	NOTIFICATION OF TRANSMITTAL OF		
2575 EAST CAMELBACK ROAD	THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL		
FIDERITY AND OPOITO 1227			
$A \cup V \cup A \cup $			
DIT DIT 12-20	Date of mailing 20 OCT 2005		
	Aday/month/year)		
Applicant's or agent's file reference /-20-06	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US05/14514	International filing date (day/month/year) 27 April 2005 (27.04.2005)		
Applicant ARIZONA BOARD OF REGENTS			
	ah ang and and the maintain of the International Costobing Authority		
have been established and are transmitted herewith.	rch report and the written opinion of the International Searching Authority		
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla			
When? The time limit for filing such amendments is search report.	s normally two months from the date of transmittal of the international		
Where? Directly to the International Bureau of WIPo			
For more detailed instructions, see the notes on the			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) additional a	itional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has be request to forward the texts of both the protest and t	een transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.		
	oplicant will be notified as soon as a decision is made.		
4. Reminders			
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.			
Name and mailing address of the ISA/ US	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Wayne Langel		
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 703-872-9206		
Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet)		

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file : mendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable. Article 41.

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered When? as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of How! one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions. Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled.
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where onginally there were 15 claims and after amendment of all claims there are 11]: "Claims I to 15 replaced by amended claims I to 11."
- Where originally there were 14 claims and the amendments consist in cancelling some claims and in "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended : [Where various kinds of amendments are made]: claim 14; claim 17 subdivided into amended claims 15. 16 and 17; new claims 20 and 21 added."

-Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if granslated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

II. at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submutted, the applicant must preferably, at the time of filing, the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or ager	nt's file reference	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.		
International applic	cation No.	International filing date (day 27 April 2005 (27.04.2005)		(Earliest) Priority Date (day/month/year) 27 April 2004 (27.04.2004)
Applicant		27.7.01.1.2003 (27.10.1.2003)	* *	
· ARIZONA BOAR	D OF REGENTS			
This international Basis of the R a. With regard language b. With Cer With With regard the terms the terms With regard the terms This international This internati	le 18. A copy is being search report consists of It is also accompanied leport and to the language, the in which it was filed, un The international to this Authority in regard to any nucleotic tain claims were found by of invention is lacking to the title, ext is approved as submitted.	transmitted to the Internation of a total of sheets. I by a copy of each prior art dinternational search was carried less otherwise indicated under search was carried out on the (Rule 23.1(b)). Ide and/or amino acid sequence unsearchable (See Box No. III) g (See Box No. III)	hal Bureau. locument cited in dout on the basis this item. basis of a translate disclosed in the second content of the second cont	hority and is transmitted to the applicant n this report. s of the international application in the tion of the international application furnished e international application, see Box No. I.
5. With regard	to the abstract,			·
the t	ext is approved as submi	itted by the applicant.		
				report, submit comments to this Authority.
	as suggested by the	•-		a fimure
	· ·	Authority, because the applican		
as selected by this Authority, because this figure better characterizes the invention.				
	(first sheet) (January 200			

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNA	TIONAL	SFARCH	REPORT

International application No.

PCT/US05/14514

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IPC(7) : C09K 11/08 US CL : 252/301.4R; 423/409,412				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELI	DS SEARCHED			
	cumentation searched (classification system followed log/301.4R; 423/409,412	by classification symbols)		
Documentation none	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched none			
Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, search	terms used)	
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Α	US 5,134,102A (NADKARNI et al), 28 July 1992 (2	28-07-92), see col. 7, lines 30-35.	1-39	
Α	US 6,296,956 B1 (HUNTER), 02 October 2001 (o2-	10-01), see col.1, line 48 to col. 3, line	1-39	
Α	62. US 6,656,615 B2 (DWILINSKI et al) 02 December 2003 (02-12-03), see col. 4, line 34 to col. 6, line 55.			
Α	US 6,531,072 B2 (SUDA et al), 11 March 2003 (11-	03-03), see col. 1, linesa 5-44.	1-39	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
"A" document particular	defining the general state of the art which is not considered to be of relevance	"T" later document published after the internation date and not in conflict with the applicate principle or theory underlying the invention document of particular relevance; the classidered novel or cannot be considered.	ion but cited to understand the ion imed invention cannot be	
"L" document	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of particular relevance; the cla considered to involve an inventive step w with one or more other such documents,	when the document is combined	
"O" document	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art		
=	published prior to the international filing date but later than the te claimed	"&" document member of the same patent far		
Date of the actual completion of the international search 07 September 2005 (07.09.2005) Date of mailing of the international search Date of mailing of the international search				
Name and mailing address of the ISA/US Authorized officer				
Mai Com P.O. Alex	I Stop PCT, Attn: ISA/US missioner for Patents Box 1450 kandria, Virginia 22313-1450 (703) 305-3230	Wayne Langel Wayne Telephone No. 703-872-9206	a Jonga	
r acsimile ino.	(100) 300-3230	<u> </u>		

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT	PCT/US05/14514	
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Continuation of B. FIELDS SEARCHED Item 3: one		

Form PCT/ISA/210 (extra sheet) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY			MGV 0 I 2005
To: DONNA H. CATALFIO PHOENIX, AZ, -	w	PCT RITTEN OPINION OF	L 13-
		ONAL SEARCHING	
		(PCT Rule 43 <i>bis</i> .1)	
	Date of mailing (day/month/year)	20 OCT 2	UUE
Applicant's or agent's file reference	FOR FURTHER	ACTION	
		See paragraph 2 below	
International application No. Internation	al filing date (day/month/year)	Priority date (day/month/	'year)
PCT/US05/14514 27 April 20 International Patent Classification (IPC) or both nation	005 (27.04.2005)	27 April 2004 (27.04.200	94)
•			
IPC(7): C09K 11/08 and US C1.: 252/301.4R; 423/409 Applicant	9,412		
ARIZONA BOARD OF REGENTS			
Adzoraboradoradoradoradoradoradoradoradoradorad			
1. This opinion contains indications relating to the fo	ollowing items:		
Box No. I Basis of the opinion			
Box No. II Priority	·		
Box No. III Non-establishment of op	pinion with regard to novelty, inve	entive step and industrial app	olicability
Box No. IV Lack of unity of invention	on		
	er Rule 43bis.1(a)(i) with regard to a captain and explanations supporting such s		industrial
Box No. VI Certain documents cited			
Box No. VII Certain defects in the int	emational application		
Box No. VIII Certain observations on	the international application		
2. FURTHER ACTION			
If a demand for international preliminary examinational Preliminary Examining Authority Authority other than this one to be the IPEA and that written opinions of this International Searching	("IPEA") except that this does I the chosen IPEA has notified to	s not apply where the app he International Bureau und	olicant chooses an
If this opinion is, as provided above, considered IPEA a written reply together, where appropriate of Form PCT/ISA/220 or before the expiration of	, with amendments, before the ex	epiration of 3 months from t	d to submit to the the date of mailing
For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/ISA/22	20.		
Name and mailing address of the ISA/ US	Authorized office	er - / /	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Wayne Langel	Mayre 4	Jangel
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 7		

Telephone No. 703-872-9206

Form PCT/ISA/237 (cover sheet) (January 2004)

Facsimile No. (703) 305-3230

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/14514

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it
was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
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Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/14514

Box No. V Reasoned statement under Rule applicability; citations and explanations	anations supporting such statement	itive step or industrial
1. Statement		
Novelty (N)	Claims <u>1-39</u>	YES
	Claims NONE	NO
Incomption atom (IC)	Claime 1 20	YES
Inventive step (IS)	Claims 1-39 Claims NONE	NO NO
Industrial applicability (IA)	Claims 1-39	YES
	Claims NONE	NO
2. Citations and explanations: Claims 1-39 meet novelty under PCT Article 33(2) crystalline structure as well as the other properties a	because the prior art does not disclose doped metas recited in claim 1, or the method of forming sucl	I nitride powders having a wurtzite h powders as recited in claim 1.
Claims 1-39 meet inventive step under PCT Article having a wurtzite crystalline structure as well as the recited in claim 1.	33(3) because the prior art does not render obviou	is doped metal nitride powders
Claims 1-39 meet industrial applicability under PCT metal nitride powder that exhibits a high luminescer	Article 33(4) because the invention relates to a matter an article and the ficiency, as well as the doped metal nitride por	nethod of producing in bulk a doped wder produced thereby.
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		er or a company or an experiment of contract

Form PCT/ISA/237 (Box No. V) (January 2004)